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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/761,539	01/16/2001		William J. Dally	2789.2010-000	5876
24319	7590	09/09/2004		EXAMINER	
LSI LOGIC		, ,	CHANG, RICHARD		
1621 BARBER LANE MS: D-106 LEGAL MILPITAS, CA 95035				ART UNIT	PAPER NUMBER
				2663	
				DATE MAILED: 09/09/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	Applicant(s)
•		09/761,539	DALLY, WILLIAM J.
. Office Actio	n Summary	Examiner	Art Unit
		Richard Chang	2663
The MAILING DA Period for Reply	TE of this communication ap	pears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTHE MAILING DATE OF Extensions of time may be available. SIX (6) MONTHS from the self of the period for reply specified of If NO period for reply is specified. Failure to reply within the set of	d above, the maximum statutory period extended period for reply will, by statu a later than three months after the mail	136(a). In no event, however, may a ply within the statutory minimum of th I will apply and will expire SIX (6) MO te, cause the application to become A	reply be timely filed  irty (30) days will be considered timely.  NTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).
Status			
1) Responsive to co	nmunication(s) filed on <u>04 </u>	June 2004.	
2a) This action is FIN	· ·	is action is non-final.	
	tion is in condition for allow nce with the practice under	•	tters, prosecution as to the merits is D. 11, 453 O.G. 213.
Disposition of Claims			
4) ☐ Claim(s) is 4a) Of the above of 5) ☐ Claim(s) is 6) ☑ Claim(s) 1,13,14, 7) ☑ Claim(s) 2-12 and	are pending in the applicate laim(s) is/are withdrayare allowed.  See and 27 is/are rejected.  See 15-25 is/are objected to esubject to restriction and/	awn from consideration.	
Application Papers	•	•	
_	s objected to by the Examir	or	
,	d on is/are: a)⊠ ac		by the Examiner
	equest that any objection to the		
, ,	• •		g(s) is objected to. See 37 CFR 1.121(d).
11)∏ The oath or declar	ation is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. §	119		
a) All b) Some  1. Certified co  2. Certified co  3. Copies of the application	s made of a claim for foreige * c) None of: pies of the priority documer pies of the priority documer ne certified copies of the pri from the International Burea etailed Office action for a lis	nts have been received.  Its have been received in a point documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s)  1) ☑ Notice of References Cited (2) ☐ Notice of Draftsperson's Pat 3) ☑ Information Disclosure State Paper No(s)/Mail Date 6/5/2	ent Drawing Review (PTO-948) ment(s) (PTO-1449 or PTO/SB/08	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 
PTOL-326 (Rev. 1-04)	Office A	Action Summary	Part of Paper No./Mail Date 9

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims <u>1, 14 and 27</u> are rejected under 35 U.S.C. 102(e) as being clearly anticipated by US patent No. 6,778,529 ("Field et al").

Regarding claims 1, 14 and 27. Field et al teach a synchronous switch and method for a telecommunications node wherein each 125 microsecond frame period is divided into 256 subframes (A time-slot interchanger ... input data frame) comprising of

a systems clock which is used to derive the 125 microsecond frame pulse for synchronization (a global frame clock) (See Fig. 32, Col. 32, lines 12 - 26),

the switch memory 656 where the traffic may be directly received at the switch interface 650 (an interchange random access ... at an input)

the switch interface 650 provides the ingress TDM traffic storage into the ingress RAM 670 to determine an address in the switching memory 656 (a write address generator ... received order) (See Fig. 33, Col. 32, lines 27 - 62), and

the controller 652 accesses the egress RAM 672 to determine an address in the switching memory 656 and retrieves the address containing TDM traffic to be read and the switch and line

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cards are synchronized to this 125 microsecond frame pulse wherein a repeated schedule of RAM accesses are performed each subframe consisting of 30 egress reads followed by 30 egress writes (a read address generator ... frame clock) (See Fig. 34, Col. 32, line 63 to Col. 33, line 18).

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 13 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent 6,778,529 ("Field et al") in view of 5,303,077 ("Buttle et al").

<u>Regarding claims 13 and 26</u>, in the previous action item 2, Field et al teach substantially all the claimed invention but did not disclose expressly the particular application involving limitations of

"at least one switch of at least one stage comprising a time-slot interchanger".

Buttle et al teach an Optical switch and switching module therefor wherein block 17 in dashed lines enclosing the time slot interchangers and the space switch 13 to indicate such a functional unit (at least one switch of at least one stage comprising a time-slot interchanger); (See Fig. 1, Col 5, lines 30- 52).

A person of ordinary skill in the art would have been motivated to employ Buttle et al in Field et al in order to obtain a time slot interchanger and to take advantage of the

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time slot interchangers and the space switch capable of the subframe interchange in claims 13 and 26.

The suggestion/motivation to do so would have been to accommodate a multistage digital cross connect switch and to take advantage of the time slot interchangers and the space switch capable of the subframe interchange in claims 13 and 26. At the time the invention was made, therefore, it would have been obvious to one of ordinary skill in the art to which the invention pertains to combine Buttle et al with Field et al to obtain the inventions specified in claims 13 and 26.

### Allowable Subject Matter

5. Claims 2-12 and 15-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and if no art rejection can be applied.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chang whose telephone number is 703-605-4398. The examiner can normally be reached on Monday - Friday from 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T Nguyen can be reached on 703-308-5340. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RIC rkc Richard Chang Patent Examiner Art Unit 2663

KENNETH VANDERPUYE PRIMARY EXAMINER